

LBL PWG

Hack-days Highlights & Misc LBL News

Matt & Mayly
2/27/2017

Hack-days Overview

We had a very successful two days at Fermilab (17-18 Feb). Primary efforts:

- LOAF tutorial, run through, and documentation
 - Dan Cherdack, Chris Marshall, Laura Fields
- Porting CAFAna from NOvA
 - Chris Backhouse, Erika Catano Mur
- Converting MVA ν_μ & ν_e selections and E_{true} vs E_{reco} to GLoBES outputs
 - Elizabeth Worcester, Matt Bass
- Getting started with GLoBES
 - Peter Norris, Cody Milne
- LBL Documentation Wiki: [link](#)
 - Mayly Sanchez, Chris Marshall

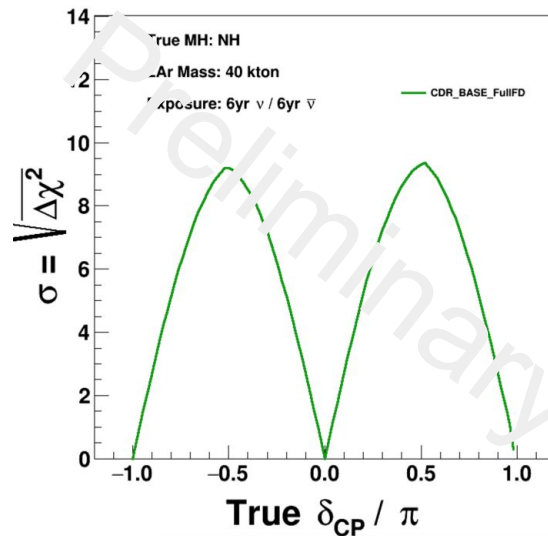
We hope to hear more from each of these efforts in future meetings.

General help and guidance on Sim/Reco: Tingjung, Tom J.

LOAF

Dan, Chris M, and Laura

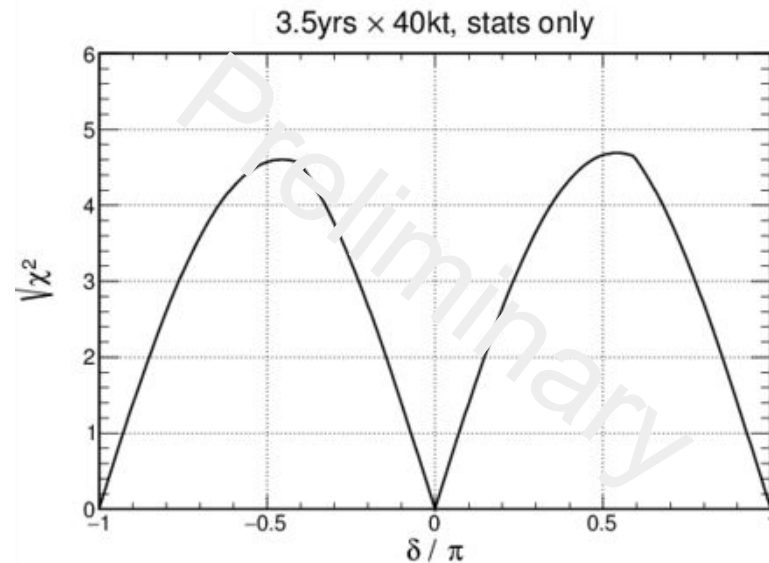
- Dan gave a LOAF tutorial
- Laura was able to produce sensitivity plots →
- Chris M helped populate LOAF [wiki](#)
- Lots of discussion concerning next steps for LOAF and efforts needed



CAFAna

Chris B. & Erika

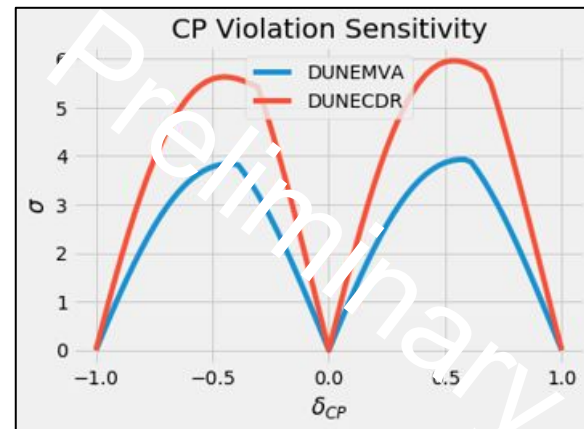
- Porting of NOvA based oscillation analysis tool to DUNE
- Based on full sim/reco MVA outputs, were able to get to preliminary sensitivity calculations
- Pushed to DUNE IbLpwg [github](#)



GLOBES/MGT

Elizabeth & Matt

- Developed scripts to export efficiencies and smearing matrices from MVA selection results to GLOBES format
- Primary results were spectra and CP violation sensitivity comparisons between the MVA (2.1 & 2.2) and CDR.
- [Added](#) to lblpww github
- More on this from Elizabeth later today



Other News

- LBL FDTF report inputs are in preparation
- In the coming months we will be preparing various toy exercises and data challenges for the various fitting schemes
- Future hack-days
 - Day before collaboration meeting (15 May)? Will send around doodle poll...
- LBL PWG [Slack channel](#) is becoming more active. Sign up with your @fnal.gov address.
- Room at FNAL for this meeting: 19th hole (WH14E) (until end of year)